

# Fifth African School of Fundamental Physics and its Applications



## Report of Contributions

Contribution ID: 1

Type: **not specified**

## Overview lecture on particle physics (1)

*Monday 25 June 2018 09:00 (45 minutes)*

**Presenter:** QUEVEDO, Fernando (The Abdus Salam International Centre for Theoretical Physics)

Contribution ID: 2

Type: **not specified**

# From Special Relativity & Quantum Mechanics to Quantum Field Theory (1)

*Monday 25 June 2018 10:50 (45 minutes)*

**Co-author:** FUKS, Benjamin (Institut Pluridisciplinaire Hubert Curien (FR))

**Presenter:** FUKS, Benjamin (Institut Pluridisciplinaire Hubert Curien (FR))

Contribution ID: 3

Type: **not specified**

## Overview lecture on Particle Physics (2)

Contribution ID: 4

Type: **not specified**

## Overview lecture on Particle Physics (2)

*Monday 25 June 2018 09:45 (45 minutes)*

**Presenter:** QUEVEDO, Fernando (The Abdus Salam International Centre for Theoretical Physics)

Contribution ID: 5

Type: **not specified**

## **From Special Relativity & Quantum Mechanics to Quantum Field Theory (2)**

*Monday 25 June 2018 11:35 (45 minutes)*

**Co-author:** FUKS, Benjamin (Institut Pluridisciplinaire Hubert Curien (FR))

**Presenter:** FUKS, Benjamin (Institut Pluridisciplinaire Hubert Curien (FR))

Contribution ID: 6

Type: **not specified**

## **From Special Relativity & Quantum Mechanics to Quantum Field Theory (3)**

*Monday 25 June 2018 13:40 (45 minutes)*

**Co-author:** FUKS, Benjamin (Institut Pluridisciplinaire Hubert Curien (FR))

**Presenter:** FUKS, Benjamin (Institut Pluridisciplinaire Hubert Curien (FR))

Contribution ID: 7

Type: **not specified**

## **From Special Relativity & Quantum Mechanics to Quantum Field Theory (4)**

*Monday 25 June 2018 14:25 (45 minutes)*

**Co-author:** FUKS, Benjamin (Institut Pluridisciplinaire Hubert Curien (FR))

**Presenter:** FUKS, Benjamin (Institut Pluridisciplinaire Hubert Curien (FR))



Contribution ID: 8

Type: **not specified**

## **Standard Model of Particle Physics (1)**

*Monday 25 June 2018 15:30 (45 minutes)*

**Primary author:** ACHARYA, Bobby Samir (Abdus Salam Int. Cent. Theor. Phys. (IT))

**Presenter:** ACHARYA, Bobby Samir (Abdus Salam Int. Cent. Theor. Phys. (IT))

Contribution ID: 9

Type: **not specified**

## Standard Model of Particle Physics (2)

*Monday 25 June 2018 16:15 (45 minutes)*

**Primary author:** ACHARYA, Bobby Samir (Abdus Salam Int. Cent. Theor. Phys. (IT))

**Presenter:** ACHARYA, Bobby Samir (Abdus Salam Int. Cent. Theor. Phys. (IT))

Contribution ID: **10**

Type: **not specified**

## **Discussion Session On Recaps: SR, QM and QFT**

*Monday 25 June 2018 17:00 (1 hour)*

**Primary author:** ACHARYA, Bobby Samir (Abdus Salam Int. Cent. Theor. Phys. (IT))

**Co-author:** FUKS, Benjamin (Institut Pluridisciplinaire Hubert Curien (FR))

**Presenters:** FUKS, Benjamin (Institut Pluridisciplinaire Hubert Curien (FR)); ACHARYA, Bobby Samir (Abdus Salam Int. Cent. Theor. Phys. (IT))

Contribution ID: 11

Type: **not specified**

## Standard Model of Particle Physics (3)

*Tuesday 26 June 2018 09:00 (45 minutes)*

**Primary author:** ACHARYA, Bobby Samir (Abdus Salam Int. Cent. Theor. Phys. (IT))

**Presenter:** ACHARYA, Bobby Samir (Abdus Salam Int. Cent. Theor. Phys. (IT))

Contribution ID: 12

Type: **not specified**

## Standard Model of Particle Physics (4)

*Tuesday 26 June 2018 09:45 (45 minutes)*

**Primary author:** ACHARYA, Bobby Samir (Abdus Salam Int. Cent. Theor. Phys. (IT))

**Presenter:** ACHARYA, Bobby Samir (Abdus Salam Int. Cent. Theor. Phys. (IT))

Contribution ID: 13

Type: **not specified**

## **Nuclear Physics (1)**

*Tuesday 26 June 2018 10:50 (45 minutes)*

**Presenter:** ELOUADRHIRI, latifa (Jefferson Lab)

Contribution ID: 14

Type: **not specified**

## **Nuclear Physics (2)**

*Tuesday 26 June 2018 11:35 (45 minutes)*

**Presenter:** ELOUADRHIRI, latifa (Jefferson Lab)

Contribution ID: 15

Type: **not specified**

## Standard Model of Particle Physics (5)

*Tuesday 26 June 2018 13:40 (45 minutes)*

**Primary author:** ACHARYA, Bobby Samir (Abdus Salam Int. Cent. Theor. Phys. (IT))

**Presenter:** ACHARYA, Bobby Samir (Abdus Salam Int. Cent. Theor. Phys. (IT))



Contribution ID: 16

Type: **not specified**

## Standard Model of Particle Physics (6)

*Tuesday 26 June 2018 14:25 (45 minutes)*

**Primary author:** ACHARYA, Bobby Samir (Abdus Salam Int. Cent. Theor. Phys. (IT))

**Presenter:** ACHARYA, Bobby Samir (Abdus Salam Int. Cent. Theor. Phys. (IT))

Contribution ID: 17

Type: **not specified**

## **Beyond the Standard Model (1)**

*Tuesday 26 June 2018 15:30 (45 minutes)*

**Primary author:** ELLIS, John (CERN)

**Presenter:** ELLIS, John (CERN)

Contribution ID: 18

Type: **not specified**

## **Beyond the Standard Model (2)**

*Tuesday 26 June 2018 16:15 (45 minutes)*

**Presenter:** ELLIS, John (CERN)

Contribution ID: 19

Type: **not specified**

## Discussion Session: Particle Physics

*Tuesday 26 June 2018 17:00 (1 hour)*

**Primary author:** ACHARYA, Bobby Samir (Abdus Salam Int. Cent. Theor. Phys. (IT))

**Co-authors:** FUKS, Benjamin (Institut Pluridisciplinaire Hubert Curien (FR)); ELLIS, John (CERN)

**Presenters:** FUKS, Benjamin (Institut Pluridisciplinaire Hubert Curien (FR)); ACHARYA, Bobby Samir (Abdus Salam Int. Cent. Theor. Phys. (IT)); ELLIS, John (CERN)

Contribution ID: 20

Type: **not specified**

## **Astrophysics & Astroparticles (1)**

*Wednesday 27 June 2018 09:00 (45 minutes)*

**Primary author:** DE NAUROIS, Mathieu (CNRS)

**Presenter:** DE NAUROIS, Mathieu (CNRS)

Contribution ID: 21

Type: **not specified**

## **Astrophysics & Astroparticles (2)**

*Wednesday 27 June 2018 09:45 (45 minutes)*

**Primary author:** DE NAUROIS, Mathieu (CNRS)

**Presenter:** DE NAUROIS, Mathieu (CNRS)

Contribution ID: 22

Type: **not specified**

## **Cosmology (1)**

*Friday 29 June 2018 10:50 (45 minutes)*

**Presenter:** DE NAUROIS, Mathieu (CNRS)

Contribution ID: 23

Type: **not specified**

## **Cosmology (2)**

*Friday 29 June 2018 11:35 (45 minutes)*

**Presenter:** DE NAUROIS, Mathieu (CNRS)



Contribution ID: 24

Type: **not specified**

## **Astrophysics & Astroparticles (3)**

*Wednesday 27 June 2018 13:40 (45 minutes)*

**Primary author:** DE NAUROIS, Mathieu (CNRS)

**Presenter:** DE NAUROIS, Mathieu (CNRS)

Contribution ID: 25

Type: **not specified**

## **Astrophysics & Astroparticles (4)**

*Wednesday 27 June 2018 14:25 (45 minutes)*

**Presenter:** DE NAUROIS, Mathieu (CNRS)

Contribution ID: 26

Type: **not specified**

## Monte Carlo Generators (1)

*Wednesday 27 June 2018 15:30 (45 minutes)*

**Presenter:** FUKS, Benjamin (Institut Pluridisciplinaire Hubert Curien (FR))

Contribution ID: 27

Type: **not specified**

## Monte Carlo Generators (2)

*Wednesday 27 June 2018 16:15 (45 minutes)*

**Presenter:** FUKS, Benjamin (Institut Pluridisciplinaire Hubert Curien (FR))

Contribution ID: 28

Type: **not specified**

## **Discussion Session: Astrophysics & Astroparticles**

*Wednesday 27 June 2018 17:00 (1 hour)*

**Primary author:** DE NAUROIS, Mathieu (CNRS)

**Presenter:** DE NAUROIS, Mathieu (CNRS)

Contribution ID: 29

Type: **not specified**

## Linux Tutorial (1)

*Friday 29 June 2018 09:00 (45 minutes)*

**Primary author:** KASAI, Eli (University of Namibia)

**Presenter:** KASAI, Eli (University of Namibia)

Contribution ID: **30**

Type: **not specified**

## **Linux Tutorial (2)**

*Friday 29 June 2018 09:45 (45 minutes)*

**Primary author:** KASAI, Eli (University of Namibia)

**Presenter:** KASAI, Eli (University of Namibia)

Contribution ID: 31

Type: **not specified**

## Heavy Ion Physics (1)

*Wednesday 27 June 2018 10:50 (45 minutes)*

**Presenter:** Prof. MURONGA, Azwinndini (Nelson Mandela University)



Contribution ID: 32

Type: **not specified**

## Heavy Ion Physics (2)

*Wednesday 27 June 2018 11:35 (45 minutes)*

**Presenter:** Prof. MURONGA, Azwinndini (Nelson Mandela University)

Contribution ID: 33

Type: **not specified**

## Monte Carlo Generators Tutorial (1)

*Friday 29 June 2018 13:40 (1h 30m)*

**Presenter:** FUKS, Benjamin (Institut Pluridisciplinaire Hubert Curien (FR))

Contribution ID: 34

Type: **not specified**

## Monte Carlo Generators Tutorial (2)

*Friday 29 June 2018 15:30 (1h 30m)*

**Presenter:** FUKS, Benjamin (Institut Pluridisciplinaire Hubert Curien (FR))

Contribution ID: 35

Type: **not specified**

## **Discussion Session: Nuclear & Heavy Ion Physics**

*Friday 29 June 2018 17:00 (1 hour)*

Contribution ID: 36

Type: **not specified**

## Discussion Session: Cosmology

*Friday 29 June 2018 17:00 (1 hour)*

**Primary author:** DE NAUROIS, Mathieu (CNRS)

**Presenter:** DE NAUROIS, Mathieu (CNRS)

Contribution ID: 37

Type: **not specified**

## **Colloquium: Particle Physics Perspective from Theory**

Contribution ID: 38

Type: **not specified**

## Linux Tutorial (3)

**Primary authors:** KASAI, Eli (University of Namibia); Mrs MUNTUUMO, Josephina (Namibia University of Science and Technology)

**Presenters:** KASAI, Eli (University of Namibia); Mrs MUNTUUMO, Josephina (Namibia University of Science and Technology)

Contribution ID: 39

Type: **not specified**

## **Astrophysics & Astroparticle Experiments (3)**

*Friday 13 July 2018 14:25 (45 minutes)*

**Presenters:** KASAI, Eli (University of Namibia); BACKES, Michael (University of Namibia); STEENKAMP, Riaan (University of Namibia)



Contribution ID: 40

Type: **not specified**

## Interactions Particle-Matter (1)

*Monday 2 July 2018 10:50 (45 minutes)*

**Primary author:** GOERLACH, Ulrich (Institut Pluridisciplinaire Hubert Curien (FR))

**Presenter:** GOERLACH, Ulrich (Institut Pluridisciplinaire Hubert Curien (FR))

Contribution ID: 41

Type: **not specified**

## Interactions Particle-Matter (2)

*Monday 2 July 2018 13:40 (45 minutes)*

**Primary author:** GOERLACH, Ulrich (Institut Pluridisciplinaire Hubert Curien (FR))

**Presenter:** GOERLACH, Ulrich (Institut Pluridisciplinaire Hubert Curien (FR))

Contribution ID: 42

Type: **not specified**

## **Interactions Particle-Matter (3)**

*Monday 2 July 2018 14:25 (45 minutes)*

**Primary author:** GOERLACH, Ulrich (Institut Pluridisciplinaire Hubert Curien (FR))

**Presenter:** GOERLACH, Ulrich (Institut Pluridisciplinaire Hubert Curien (FR))

Contribution ID: 43

Type: **not specified**

## Interactions Particle-Matter (4)

*Monday 2 July 2018 17:00 (45 minutes)*

**Primary author:** GOERLACH, Ulrich (Institut Pluridisciplinaire Hubert Curien (FR))

**Presenter:** GOERLACH, Ulrich (Institut Pluridisciplinaire Hubert Curien (FR))

Contribution ID: 44

Type: **not specified**

## Particle Detectors & ID (3)

*Wednesday 4 July 2018 09:45 (45 minutes)*

**Primary author:** GOERLACH, Ulrich (Institut Pluridisciplinaire Hubert Curien (FR))

**Presenter:** GOERLACH, Ulrich (Institut Pluridisciplinaire Hubert Curien (FR))

Contribution ID: 45

Type: **not specified**

## **Briefing on Logistics and Feedback**

*Tuesday 3 July 2018 09:00 (45 minutes)*

**Presenters:** KASAI, Eli (University of Namibia); ASSAMAGAN, Ketevi Adikle (Brookhaven National Laboratory (US))

Contribution ID: 46

Type: **not specified**

## Particle Detectors & ID (2)

*Wednesday 4 July 2018 09:00 (45 minutes)*

**Presenter:** GOERLACH, Ulrich (Institut Pluridisciplinaire Hubert Curien (FR))

Contribution ID: 47

Type: **not specified**

## Introduction to Geant4 (1)

*Monday 2 July 2018 16:15 (45 minutes)*

**Presenters:** MANCINI TERRACCIANO, Carlo (Sapienza Università e INFN, Roma I (IT)); BARBERIS, Dario (Università e INFN Genova (IT))



Contribution ID: 48

Type: **not specified**

## Introduction to Geant4 (2)

*Tuesday 3 July 2018 11:35 (45 minutes)*

**Presenters:** MANCINI TERRACCIANO, Carlo (Sapienza Università e INFN, Roma I (IT)); BARBERIS, Dario (Università e INFN Genova (IT))

Contribution ID: 49

Type: **not specified**

## Statistical Methods for Data Analysis (1)

*Friday 6 July 2018 09:00 (45 minutes)*

**Primary author:** GROSS, Eilam (Weizmann Institute of Science (IL))

**Presenter:** GROSS, Eilam (Weizmann Institute of Science (IL))

Contribution ID: 50

Type: **not specified**

## Statistical Methods for Data Analysis (2)

*Friday 6 July 2018 09:45 (45 minutes)*

**Primary author:** GROSS, Eilam (Weizmann Institute of Science (IL))

**Presenter:** GROSS, Eilam (Weizmann Institute of Science (IL))

Contribution ID: 51

Type: **not specified**

## Geant4 Tutorial

*Tuesday 3 July 2018 15:30 (2h 30m)*

**Presenters:** MANCINI TERRACCIANO, Carlo (Sapienza Università e INFN, Roma I (IT)); BARBERIS, Dario (Università e INFN Genova (IT))

Contribution ID: 52

Type: **not specified**

## **Introduction to ROOT**

*Monday 2 July 2018 09:00 (45 minutes)*

**Presenter:** BERTSCHE, David (Deutsches Elektronen-Synchrotron (DE))

Contribution ID: 53

Type: **not specified**

## Introduction to ROOT

*Monday 2 July 2018 09:45 (45 minutes)*

**Presenter:** BERTSCHE, David (Deutsches Elektronen-Synchrotron (DE))

Contribution ID: 54

Type: **not specified**

## Students Talks

Contribution ID: 55

Type: **not specified**

## **Introduction to Electronics (1)**

*Tuesday 3 July 2018 09:45 (45 minutes)*

**Primary author:** CHIGUVARE, Zivayi (University of Namibia)

**Presenter:** CHIGUVARE, Zivayi (University of Namibia)



Contribution ID: 56

Type: **not specified**

## **Introduction to Electronics (2)**

*Tuesday 3 July 2018 10:50 (45 minutes)*

**Primary author:** CHIGUVARE, Zivayi (University of Namibia)

**Presenter:** CHIGUVARE, Zivayi (University of Namibia)

Contribution ID: 57

Type: **not specified**

## From Raw Data to Data Analysis at LHC (1)

*Wednesday 4 July 2018 10:50 (45 minutes)*

**Primary author:** ASSAMAGAN, Ketevi Adikle (Brookhaven National Laboratory (US))

**Co-author:** MAZINI, Rachid (Academia Sinica (TW))

**Presenters:** ASSAMAGAN, Ketevi Adikle (Brookhaven National Laboratory (US)); MAZINI, Rachid (Academia Sinica (TW))

Contribution ID: 58

Type: **not specified**

## From Raw Data to Data Analysis at LHC (2)

*Thursday 5 July 2018 09:00 (45 minutes)*

**Primary author:** ASSAMAGAN, Ketevi Adikle (Brookhaven National Laboratory (US))

**Co-author:** MAZINI, Rachid (Academia Sinica (TW))

**Presenters:** ASSAMAGAN, Ketevi Adikle (Brookhaven National Laboratory (US)); MAZINI, Rachid (Academia Sinica (TW))

Contribution ID: 59

Type: **not specified**

## Discussion Session: Particle Detectors

Contribution ID: **60**

Type: **not specified**

## **Standard Model Measurements at LHC Experiments (1)**

Contribution ID: 61

Type: **not specified**

## **Standard Model Measurements at LHC Experiments (2)**

Contribution ID: 62

Type: **not specified**

## Cosmology Experiments

*Thursday 5 July 2018 11:35 (45 minutes)*

**Primary author:** BACKES, Michael (University of Namibia)

**Co-authors:** KASAI, Eli (University of Namibia); STEENKAMP, Riaan (University of Namibia)

**Presenters:** KASAI, Eli (University of Namibia); BACKES, Michael (University of Namibia); STEENKAMP, Riaan (University of Namibia)

Contribution ID: 63

Type: **not specified**

## **Astrophysics & Astroparticles Experiments (1)**

*Thursday 12 July 2018 09:00 (45 minutes)*

**Primary author:** BACKES, Michael (University of Namibia)

**Co-authors:** KASAI, Eli (University of Namibia); STEENKAMP, Riaan (University of Namibia)

**Presenters:** KASAI, Eli (University of Namibia); BACKES, Michael (University of Namibia); STEENKAMP, Riaan (University of Namibia)



Contribution ID: 64

Type: **not specified**

## Nuclear Physics Experiments

Contribution ID: 65

Type: **not specified**

## Heavy Ions Experiments

Contribution ID: **66**

Type: **not specified**

## **Electronic Lab**

Contribution ID: 67

Type: **not specified**

## **Lab with Small Detectors (Cosmic Wheel, Scintillators,...)**

Contribution ID: **68**

Type: **not specified**

## **MasterClass: ATLAS**

Contribution ID: 69

Type: **not specified**

# MasterClass: CMS

Contribution ID: 70

Type: **not specified**

## **Searches for Physics Beyond the Standard Model (1)**

Contribution ID: 71

Type: **not specified**

## **Searches for Physics Beyond the Standard Model (2)**



Contribution ID: 72

Type: **not specified**

## Neutrino Physics (1)

Contribution ID: 73

Type: **not specified**

## **Nanotechnology (1)**

Contribution ID: 74

Type: **not specified**

## Neutrino Physics (2)

Contribution ID: 75

Type: **not specified**

## Nanotechnology (2)

Contribution ID: 76

Type: **not specified**

## Setup Time

Contribution ID: 77

Type: **not specified**

## Data Analysis using ROOT

*Monday 9 July 2018 08:45 (1h 30m)*

**Presenter:** ILIC, Nikolina (Stanford University (US))

Contribution ID: 78

Type: **not specified**

## Opportunities for Students

Contribution ID: 79

Type: **not specified**

## Colloquium: Experimental Particle Physics



Contribution ID: **80**

Type: **not specified**

## Poster Session

Contribution ID: **81**

Type: **not specified**

## Digital Library

Contribution ID: 82

Type: **not specified**

## Heavy Flavour Physics (1)

*Friday 6 July 2018 09:00 (45 minutes)*

**Presenter:** CAMPANELLI, Mario (University College London (UK))

Contribution ID: 83

Type: **not specified**

## Prospects of Experiments in Africa: SKA

Contribution ID: **84**

Type: **not specified**

## **Heavy Flavour Physics (2)**

*Friday 6 July 2018 09:45 (45 minutes)*

**Presenter:** CAMPANELLI, Mario (University College London (UK))

Contribution ID: 85

Type: **not specified**

## **Prospects of Experiments in Africa: Light Source**

Contribution ID: 86

Type: **not specified**

## **Activities and Opportunities at ICTP**

**Presenter:** ACHARYA, Bobby Samir (Abdus Salam Int. Cent. Theor. Phys. (IT))

Contribution ID: 87

Type: **not specified**

## Videoconference with ICHEP

*Saturday 7 July 2018 09:00 (1h 30m)*

**Primary authors:** KASAI, Eli (University of Namibia); GRAY, Heather (LBNL); ASSAMAGAN, Ketevi Adikle (Brookhaven National Laboratory (US))

**Presenters:** KASAI, Eli (University of Namibia); GRAY, Heather (LBNL); ASSAMAGAN, Ketevi Adikle (Brookhaven National Laboratory (US))



Contribution ID: **88**

Type: **not specified**

## **Grid Certificate Registration / Grid Session Introduction**

*Monday 9 July 2018 08:30 (15 minutes)*

**Presenter:** SEVERINI, Horst (University of Oklahoma (US))

Contribution ID: **89**

Type: **not specified**

## **Linux Recaps**

*Tuesday 10 July 2018 10:40 (45 minutes)*

**Presenter:** KASAI, Eli (University of Namibia)

Contribution ID: 90

Type: **not specified**

## Gravitational Waves (1)

Contribution ID: 91

Type: **not specified**

## Gravitational Waves (2)

Contribution ID: 92

Type: **not specified**

## **Introduction to Accelerators (1)**

*Monday 9 July 2018 13:40 (45 minutes)*

**Presenter:** BISCARI, Caterina

Contribution ID: 93

Type: **not specified**

## **Introduction to Accelerators (2)**

*Monday 9 July 2018 14:25 (45 minutes)*

**Presenter:** BISCARI, Caterina

Contribution ID: 94

Type: **not specified**

# **Introduction to synchrotron radiation physics and applications**

*Monday 9 July 2018 15:30 (45 minutes)*

**Presenter:** RIVKIN, Lenny (Paul Scherrer Institut (CH))

Contribution ID: 95

Type: **not specified**

## High brightness electron and photon beams

*Monday 9 July 2018 16:15 (45 minutes)*

**Presenter:** RIVKIN, Lenny (Paul Scherrer Institut (CH))



Contribution ID: 96

Type: **not specified**

## **Inverse Compton Scattering Sources of advanced photon beams: a path to TeV-class photon generation**

*Monday 9 July 2018 17:00 (1 hour)*

**Presenter:** SERAFINI, luca (INFN-Milan)

Contribution ID: 97

Type: **not specified**

## Data Analysis using ROOT

Contribution ID: 98

Type: **not specified**

## Colloquium: Experimental Particle Physics

Contribution ID: 99

Type: **not specified**

# Digital Library

Contribution ID: **100**

Type: **not specified**

## **Gravitational Waves (1)**

*Saturday 7 July 2018 10:50 (45 minutes)*

**Presenter:** COCCIA, Eugenio (Universita e INFN Roma Tor Vergata (IT))

Contribution ID: **101**

Type: **not specified**

## **Gravitational Waves (2)**

*Saturday 7 July 2018 11:35 (45 minutes)*

**Presenter:** COCCIA, Eugenio (Universita e INFN Roma Tor Vergata (IT))

Contribution ID: **102**

Type: **not specified**

## **Prospects of Experimental Facilities in Africa: Light Source**

**Presenter:** CONNELL, Simon (University of Johannesburg (ZA))

Contribution ID: **103**

Type: **not specified**

## **Masterclasses - ATLAS or CMS Events**

*Saturday 7 July 2018 13:40 (1h 30m)*

**Presenters:** DE ROECK, Albert (CERN); BERTSCHE, David (Deutsches Elektronen-Synchrotron (DE)); MOHLABENG, Gopolang (BNL); CECIRE, Kenneth William (University of Notre Dame (US))



Contribution ID: 104

Type: **not specified**

## **Activities and Opportunities at CERN**

**Presenter:** DE ROECK, Albert (CERN)

Contribution ID: **105**

Type: **not specified**

## **Astrophysics & Astroparticle Experiments (2)**

*Thursday 12 July 2018 09:45 (45 minutes)*

**Primary author:** BACKES, Michael (University of Namibia)

**Co-authors:** KASAI, Eli (University of Namibia); STEENKAMP, Riaan (University of Namibia)

**Presenters:** BACKES, Michael (University of Namibia); KASAI, Eli (University of Namibia); STEENKAMP, Riaan (University of Namibia)

Contribution ID: **106**

Type: **not specified**

## **Searches for Physics Beyond the SM (1)**

*Thursday 5 July 2018 09:45 (45 minutes)*

**Primary author:** MUANZA, Steve Guy (CPPM, Aix-Marseille Université, CNRS/IN2P3 (FR))

**Presenter:** MUANZA, Steve Guy (CPPM, Aix-Marseille Université, CNRS/IN2P3 (FR))

Contribution ID: **107**

Type: **not specified**

## Heavy Flavour Physics (1)

**Primary author:** CAMPANELLI, Mario (University College London (UK))

**Co-author:** PEPE-ALTARELLI, Monica (CERN)

**Presenters:** CAMPANELLI, Mario (University College London (UK)); PEPE-ALTARELLI, Monica (CERN)

Contribution ID: **108**

Type: **not specified**

## **Searches for Physics Beyond the SM (2)**

*Thursday 5 July 2018 10:50 (45 minutes)*

**Primary author:** MUANZA, Steve Guy (CPPM, Aix-Marseille Université, CNRS/IN2P3 (FR))

**Presenter:** MUANZA, Steve Guy (CPPM, Aix-Marseille Université, CNRS/IN2P3 (FR))

Contribution ID: **109**

Type: **not specified**

## Heavy Flavour Physics (2)

**Primary author:** CAMPANELLI, Mario (University College London (UK))

**Co-author:** PEPE-ALTARELLI, Monica (CERN)

**Presenters:** CAMPANELLI, Mario (University College London (UK)); PEPE-ALTARELLI, Monica (CERN)

Contribution ID: **110**

Type: **not specified**

## Neutrino Physics (1)

*Friday 6 July 2018 10:50 (45 minutes)*

**Primary author:** BISHAI, Mary (Brookhaven National Laboratory)

**Co-author:** WHITE, Herman (Fermilab)

**Presenters:** BISHAI, Mary (Brookhaven National Laboratory); WHITE, Herman (Fermilab)

Contribution ID: **111**

Type: **not specified**

## **Flavor Physics (1)**

**Presenter:** CAMPANELLI, Mario (University College London (UK))



Contribution ID: 112

Type: **not specified**

## Neutrino Physics (2)

*Friday 6 July 2018 11:35 (45 minutes)*

**Primary author:** WHITE, Herman (Fermilab)

**Co-author:** BISHAI, Mary (Brookhaven National Laboratory)

**Presenters:** WHITE, Herman (Fermilab); BISHAI, Mary (Brookhaven National Laboratory)

Contribution ID: 113

Type: **not specified**

## Flavor Physics(2)

**Presenter:** CAMPANELLI, Mario (University College London (UK))

Contribution ID: 114

Type: **not specified**

## Heavy Ion Experiments

*Friday 6 July 2018 13:40 (45 minutes)*

**Primary author:** FOERTSCH, Siegfried (iThemba LABS, National Research Foundation (ZA))

**Presenter:** FOERTSCH, Siegfried (iThemba LABS, National Research Foundation (ZA))

Contribution ID: 115

Type: **not specified**

## **Nuclear Physics Experiments**

**Presenters:** LACEY, Roy (Stony Brook University); LACEY, Roy Alphanso (Stony brook Universty (US))

Contribution ID: **116**

Type: **not specified**

## Heavy Ion Experiments

*Friday 6 July 2018 14:25 (45 minutes)*

**Presenter:** FOERTSCH, Siegfried (iThemba LABS, National Research Foundation (ZA))

Contribution ID: 117

Type: **not specified**

## Heavy Ion Experiments

**Co-author:** LACEY, Roy Alphanso (Stony brook Universty (US))

**Presenters:** LACEY, Roy Alphanso (Stony brook Universty (US)); LACEY, Roy (Stony Brook University)

Contribution ID: **118**

Type: **not specified**

## **Electronic Lab**

*Friday 6 July 2018 15:30 (2h 30m)*

**Primary author:** CHIGUVARE, Zivayi (University of Namibia)

**Presenter:** CHIGUVARE, Zivayi (University of Namibia)

Contribution ID: **119**

Type: **not specified**

## **Lab with Small Detectors (Cosmic Wheel, Scintillators,...)**

*Friday 6 July 2018 15:30 (2h 30m)*

**Primary authors:** GRAY, Heather (LBNL); CAMPANELLI, Mario (University College London (UK)); MAZINI, Rachid (Academia Sinica (TW))

**Presenters:** GRAY, Heather (LBNL); CAMPANELLI, Mario (University College London (UK)); MAZINI, Rachid (Academia Sinica (TW))



Contribution ID: **120**

Type: **not specified**

## **MasterClass: ATLAS events**

**Primary authors:** SHAW, Kate (INFN Gruppo Collegato di Udine and ICTP Trieste); CECIRE, Kenneth William (University of Notre Dame (US))

**Presenters:** MOHLABENG, Gopolang (BNL); CECIRE, Kenneth William (University of Notre Dame (US))

Contribution ID: 121

Type: **not specified**

## **MasterClass: CMS events**

**Primary author:** DE ROECK, Albert (CERN)

**Presenters:** DE ROECK, Albert (CERN); BERTSCHE, David (Deutsches Elektronen-Synchrotron (DE))

Contribution ID: 122

Type: **not specified**

## Transport & Setup Time

*Wednesday 4 July 2018 13:40 (20 minutes)*

Contribution ID: 123

Type: **not specified**

## **Statistical Methods for Data Analysis (3)**

*Friday 6 July 2018 10:50 (45 minutes)*

**Presenter:** GROSS, Eilam (Weizmann Institute of Science (IL))

Contribution ID: 124

Type: **not specified**

## Statistical Methods for Data Analysis (4)

*Friday 6 July 2018 11:35 (45 minutes)*

**Presenter:** GROSS, Eilam (Weizmann Institute of Science (IL))

Contribution ID: 125

Type: **not specified**

## Discussion Session: Data Analysis Techniques

*Thursday 5 July 2018 17:00 (1 hour)*

**Primary author:** CHARLTON, Dave (University of Birmingham (GB))

**Presenters:** DE ROECK, Albert (CERN); CHARLTON, Dave (University of Birmingham (GB)); MAZINI, Rachid (Academia Sinica (TW)); MUANZA, Steve Guy (CPPM, Aix-Marseille Université, CNRS/IN2P3 (FR)); GOERLACH, Ulrich (Institut Pluridisciplinaire Hubert Curien (FR))

Contribution ID: 126

Type: **not specified**

## Standard Model Measurements at LHC Experiments (2)

*Thursday 5 July 2018 14:25 (45 minutes)*

**Primary author:** DE ROECK, Albert (CERN)

**Co-authors:** CHARLTON, Dave (University of Birmingham (GB)); GRAY, Heather (LBNL)

**Presenters:** DE ROECK, Albert (CERN); CHARLTON, Dave (University of Birmingham (GB)); GRAY, Heather (LBNL)

Contribution ID: 127

Type: **not specified**

## Standard Model Measurements at LHC Experiments (1)

*Thursday 5 July 2018 13:40 (45 minutes)*

**Primary author:** DE ROECK, Albert (CERN)

**Co-authors:** CHARLTON, Dave (University of Birmingham (GB)); GRAY, Heather (LBNL)

**Presenters:** DE ROECK, Albert (CERN); CHARLTON, Dave (University of Birmingham (GB)); GRAY, Heather (LBNL)



Contribution ID: 128

Type: **not specified**

## Discussion Session: Particle Detectors

**Primary authors:** KASAI, Eli (University of Namibia); GOERLACH, Ulrich (Institut Pluridisciplinaire Hubert Curien (FR))

**Presenters:** KASAI, Eli (University of Namibia); GOERLACH, Ulrich (Institut Pluridisciplinaire Hubert Curien (FR)); BACKES, Michael (University of Namibia); CHARLTON, Dave (University of Birmingham (GB))

Contribution ID: **129**

Type: **not specified**

**<https://indico.cern.ch/event/667667/timetable/>**

**Session Classification:** Students participation to ACP2018

Contribution ID: **130**

Type: **not specified**

## **Closing Session**

Student survey, student poster award, acknowledgment and thanks

Contribution ID: 131

Type: **not specified**

## **Closing Session: Student survey, student poster awards, acknowledgements and thanks**

*Friday 13 July 2018 17:00 (1 hour)*

**Presenter:** ASSAMAGAN, Ketevi Adikle (Brookhaven National Laboratory (US))

Contribution ID: 132

Type: **not specified**

## **The Use of Grid Computing Technology in HEP**

**Session Classification:** Accelerators - Applications - Computing

Contribution ID: 133

Type: **not specified**

## **Introduction to High Troughput Computing**

**Session Classification:** Accelerators - Applications - Computing

Contribution ID: 134

Type: **not specified**

## **Closing thoughts on High Throughput Computing**

*Wednesday 11 July 2018 14:25 (45 minutes)*

**Presenter:** SKUBIC, Patrick (University of Oklahoma)

Contribution ID: 135

Type: **not specified**

## **Introduction to High Troughput Computing**

*Tuesday 10 July 2018 11:25 (30 minutes)*

**Presenter:** SKUBIC, Patrick (University of Oklahoma)



Contribution ID: 136

Type: **not specified**

## Running HTC jobs locally with Condor, I & II

**Presenters:** SEVERINI, Horst (University of Oklahoma (US)); GRAY, Julia Ann (University of Kansas (US)); GROSS, Kyle (Open Science Grid / Indiana University); SKUBIC, Patrick (University of Oklahoma)

**Session Classification:** Accelerators - Applications - Computing

Contribution ID: 137

Type: **not specified**

## Profiling your applications

*Tuesday 10 July 2018 13:40 (45 minutes)*

**Presenter:** GRAY, Julia Ann (University of Kansas (US))

Contribution ID: 138

Type: **not specified**

## More complex Condor exercises

*Tuesday 10 July 2018 14:25 (45 minutes)*

**Presenters:** SEVERINI, Horst (University of Oklahoma (US)); GRAY, Julia Ann (University of Kansas (US)); SKUBIC, Patrick (University of Oklahoma)

Contribution ID: 139

Type: **not specified**

## **Workflows and distributed environments**

*Tuesday 10 July 2018 15:30 (45 minutes)*

**Presenter:** SEVERINI, Horst (University of Oklahoma (US))

Contribution ID: 140

Type: **not specified**

## **Introduction to grids and work flow systems**

**Presenter:** QUICK, Robert (Indiana University)

Contribution ID: 141

Type: **not specified**

## DAGMan Exercises

*Tuesday 10 July 2018 16:15 (1h 45m)*

**Presenters:** SEVERINI, Horst (University of Oklahoma (US)); GRAY, Julia Ann (University of Kansas (US)); SKUBIC, Patrick (University of Oklahoma)

Contribution ID: 142

Type: **not specified**

## **Introduction to Clouds and Containers**

*Wednesday 11 July 2018 09:00 (45 minutes)*

**Presenter:** SEVERINI, Horst (University of Oklahoma (US))

Contribution ID: 143

Type: **not specified**

## **Lecture: Introduction to Analysis Example tutorial**

*Wednesday 11 July 2018 10:50 (45 minutes)*

**Presenter:** SKUBIC, Patrick (University of Oklahoma)



Contribution ID: 144

Type: **not specified**

## **Tutorial: Analysis Example**

*Wednesday 11 July 2018 11:35 (45 minutes)*

**Presenters:** SEVERINI, Horst (University of Oklahoma (US)); GRAY, Julia Ann (University of Kansas (US)); SKUBIC, Patrick (University of Oklahoma)

Contribution ID: 145

Type: **not specified**

## **More time for exercises**

*Wednesday 11 July 2018 13:40 (45 minutes)*

**Presenters:** SEVERINI, Horst (University of Oklahoma (US)); GRAY, Julia Ann (University of Kansas (US)); SKUBIC, Patrick (University of Oklahoma)

Contribution ID: 146

Type: **not specified**

## **Beam Diagnostics and Accelerator Instrumentation (I and II)**

*Wednesday 11 July 2018 15:30 (1h 30m)*

**Presenter:** SOBY, Lars (CERN)

Contribution ID: 147

Type: **not specified**

## **Beam Diagnostics and Accelerator Instrumentation (II)**

**Presenter:** SOBY, Lars (CERN)

Contribution ID: 148

Type: **not specified**

## **Radiation Measurement and Dosimetry I**

*Thursday 5 July 2018 15:30 (45 minutes)*

**Presenter:** SILARI, Marco (CERN)

Contribution ID: 149

Type: **not specified**

## **Radiation Measurement and Dosimetry II**

*Thursday 5 July 2018 16:15 (45 minutes)*

**Presenter:** SILARI, Marco (CERN)

Contribution ID: 150

Type: **not specified**

## **Medical Application: Cancer Treatment with Particle Beams I**

*Thursday 12 July 2018 13:40 (45 minutes)*

Radio-oncology

**Primary author:** MUANZA, Thierry (J)

**Presenter:** MUANZA, Thierry (J)

Contribution ID: 151

Type: **not specified**

## **Tutorial: Beams Dynamics**

*Wednesday 11 July 2018 17:00 (1 hour)*

**Presenters:** BISCARI, Caterina; RIVKIN, Lenny (Paul Scherrer Institut (CH))



Contribution ID: 152

Type: **not specified**

## **Application of Accelerators to Nuclear Energy**

*Friday 13 July 2018 13:40 (45 minutes)*

**Presenter:** KADI, Yacine (CERN)

Contribution ID: 153

Type: **not specified**

## Student Oral Presentations

*Friday 13 July 2018 15:30 (45 minutes)*

**Presenter:** ASSAMAGAN, Ketevi Adikle (Brookhaven National Laboratory (US))

Contribution ID: 154

Type: **not specified**

## Student Oral Presentations

*Friday 13 July 2018 16:15 (45 minutes)*

**Presenter:** ASSAMAGAN, Ketevi Adikle (Brookhaven National Laboratory (US))

Contribution ID: 155

Type: **not specified**

## **Medical Application: Cancer Treatment with Particle Beams II**

*Thursday 12 July 2018 14:25 (45 minutes)*

Radio-oncology

**Presenter:** MUANZA, Thierry (J)

Contribution ID: **156**

Type: **not specified**

## **Tutorial: Fluka**

*Thursday 12 July 2018 15:30 (2h 30m)*

**Presenter:** KADI, Yacine (CERN)

Contribution ID: 157

Type: **not specified**

## Emittance Measurements I

**Presenter:** RAICH, Uli (CERN)

**Session Classification:** Accelerators - Applications - Computing

Contribution ID: 158

Type: **not specified**

## **Emittance Measurements II (with exercices)**

**Presenter:** RAICH, Uli (CERN)

**Session Classification:** Accelerators - Applications - Computing

Contribution ID: 159

Type: **not specified**

## **R&D on Future Accelerators I (Linear Colliders)**



Contribution ID: **160**

Type: **not specified**

## **R&D on Future Accelerators II (Circular Colliders)**

Contribution ID: 161

Type: **not specified**

## **Accelerators for Nuclear Physics (Radioactive Beams)**

*Thursday 12 July 2018 10:50 (45 minutes)*

**Presenter:** KADI, Yacine (CERN)

Contribution ID: **162**

Type: **not specified**

## **Proton Accelerators (ESS, LHC)**

*Thursday 12 July 2018 11:35 (45 minutes)*

**Presenter:** DARVE, Christine (European Spallation Source)

Contribution ID: **163**

Type: **not specified**

## **Solar energy**

*Friday 13 July 2018 10:50 (45 minutes)*

**Primary author:** KWARIKUNDA, Nicholas (University of Namibia)

**Presenter:** KWARIKUNDA, Nicholas (University of Namibia)

Contribution ID: 164

Type: **not specified**

## **Prospects for an African Light Source Facility**

Contribution ID: **165**

Type: **not specified**

## **Accelerator Instrumentation I**

Contribution ID: **166**

Type: **not specified**

## **Accelerator Instrumentation II**

Contribution ID: **167**

Type: **not specified**

## Neutron Sources

*Friday 13 July 2018 11:35 (45 minutes)*

**Presenter:** DARVE, Christine (European Spallation Source)



Contribution ID: **168**

Type: **not specified**

## **Using Mathematica for Physics computations**

**Presenter:** DIWAN, Milan (BNL)

Contribution ID: **169**

Type: **not specified**

## **Tutorial On Mathematica II**

Contribution ID: 170

Type: **not specified**

## Using Mathematica for Physics computations

**Presenter:** DIWAN, Milan (BNL)

Contribution ID: 171

Type: **not specified**

## Using Mathematica for Physics computations

**Presenter:** DIWAN, Milan (BNL)

Contribution ID: 172

Type: **not specified**

## Particle Detectors & ID (1)

*Tuesday 3 July 2018 13:40 (45 minutes)*

**Presenter:** GOERLACH, Ulrich (Institut Pluridisciplinaire Hubert Curien (FR))

Contribution ID: 173

Type: **not specified**

## **Seminar: Physics at Gran Sasso Laboratories**

*Monday 9 July 2018 10:35 (1h 30m)*

**Presenter:** FERRONI, Fernando

Contribution ID: 174

Type: **not specified**

## **Seminar: Questions and Answers**

*Monday 9 July 2018 12:05 (10 minutes)*

**Presenter:** FERRONI, Fernando

Contribution ID: 175

Type: **not specified**

## **Beam Diagnostics laboratory experimentation**

*Friday 13 July 2018 09:00 (45 minutes)*

BPM simulations and measurements

**Presenter:** SOBY, Lars (CERN)



Contribution ID: 176

Type: **not specified**

## **Beam Diagnostics laboratory experimentation**

*Friday 13 July 2018 09:45 (45 minutes)*

BPM simulations and measurements

**Presenter:** SOBY, Lars (CERN)

Contribution ID: 177

Type: **not specified**

## **MadDM**

*Thursday 5 July 2018 17:00 (1 hour)*

**Presenter:** MOHLABENG, Gopolang (BNL)

Contribution ID: 178

Type: **not specified**

## **MadDM (2)**

**Presenter:** MOHLABENG, Gopolang (BNL)

Contribution ID: 179

Type: **not specified**

## Nanotechnology

*Thursday 12 July 2018 15:30 (2h 30m)*

**Presenter:** YITAMBEN, Esmeralda

Contribution ID: **180**

Type: **not specified**

## **MadDM**

*Friday 6 July 2018 13:40 (1h 30m)*

**Presenter:** MOHLABENG, Gopolang (BNL)

Contribution ID: **181**

Type: **not specified**

## **Playing with ultra-high brilliance photon beams: the elusive photon-photon interaction**

*Tuesday 10 July 2018 09:00 (45 minutes)*

**Presenter:** SERAFINI, luca (INFN-Milan)

Contribution ID: **182**

Type: **not specified**

## **Masterclasses - ATLAS or CMS Events**

*Saturday 7 July 2018 15:30 (1h 30m)*

**Presenters:** DE ROECK, Albert (CERN); BERTSCHE, David (Deutsches Elektronen-Synchrotron (DE)); MOHLABENG, Gopolang (University of Kansas); CECIRE, Kenneth William (University of Notre Dame (US))

Contribution ID: **183**

Type: **not specified**

## **Namibian & AU Anthems**

*Monday 25 June 2018 08:30 (5 minutes)*

Prof. R. Steenkamp  
Head of Physics Department @ UNAM

**Presenter:** STEENKAMP, Riaan (University of Namibia)

**Session Classification:** Welcome Session



Contribution ID: **184**

Type: **not specified**

## Welcome Address (1)

*Monday 25 June 2018 08:35 (5 minutes)*

Prof. F. GIDEON

Pro-Vice Chancellor in Charge of the Academic Affairs @ UNAM

**Presenter:** Prof. GIDEON, Frednard (UNAM)

**Session Classification:** Welcome Session

Contribution ID: **185**

Type: **not specified**

## Welcome Address (2)

*Monday 25 June 2018 08:40 (5 minutes)*

Ms E. KERAMEN  
Acting CEO @ NCRST

**Presenter:** Mrs KERAMEN, Enid (NCRST)

**Session Classification:** Welcome Session

Contribution ID: **186**

Type: **not specified**

## Guest of Honour Address

*Monday 25 June 2018 08:45 (5 minutes)*

Prof. Fernando QUEVEDO  
Director of ICTP

**Presenter:** QUEVEDO, Fernando (The Abdus Salam International Centre for Theoretical Physics)

**Session Classification:** Welcome Session

Contribution ID: **187**

Type: **not specified**

## **Vote of Thank (1)**

*Monday 25 June 2018 08:50 (5 minutes)*

Dr. Ketevi ASSAMAGAN  
for the ASP International Organizing Committee

**Presenter:** ASSAMAGAN, Ketevi Adikle (Brookhaven National Laboratory (US))

**Session Classification:** Welcome Session

Contribution ID: **188**

Type: **not specified**

## **Vote of Thank (2)**

*Monday 25 June 2018 08:55 (5 minutes)*

Dr. Eli KASAI  
Chair of the Local Organizing Committee

**Presenter:** KASAI, Eli (University of Namibia)

**Session Classification:** Welcome Session

Contribution ID: **189**

Type: **not specified**

## **The Music of Physics**

*Saturday 7 July 2018 17:00 (1 hour)*

**Presenter:** GROSS, Eilam (Weizmann Institute of Science (IL))

Contribution ID: 190

Type: **not specified**

## **Advanced Sources of tertiary beams of pions, muons and neutrinos based on a strange marriage: XFEL and LHC**

*Tuesday 10 July 2018 09:45 (45 minutes)*

**Presenter:** SERAFINI, luca (INFN-Milan)

Contribution ID: 191

Type: **not specified**

## Simple Condor Exercises

*Tuesday 10 July 2018 11:55 (45 minutes)*

**Presenters:** SEVERINI, Horst (University of Oklahoma (US)); GRAY, Julia Ann (University of Kansas (US)); SKUBIC, Patrick (University of Oklahoma)



Contribution ID: **192**

Type: **not specified**

## **Application - Accelerator - Computing**

*Tuesday 10 July 2018 09:00 (9 hours)*

Contribution ID: **193**

Type: **not specified**

## **ROOT Tutorial**

*Wednesday 11 July 2018 09:45 (45 minutes)*

**Presenter:** ILIC, Nikolina (Stanford University (US))